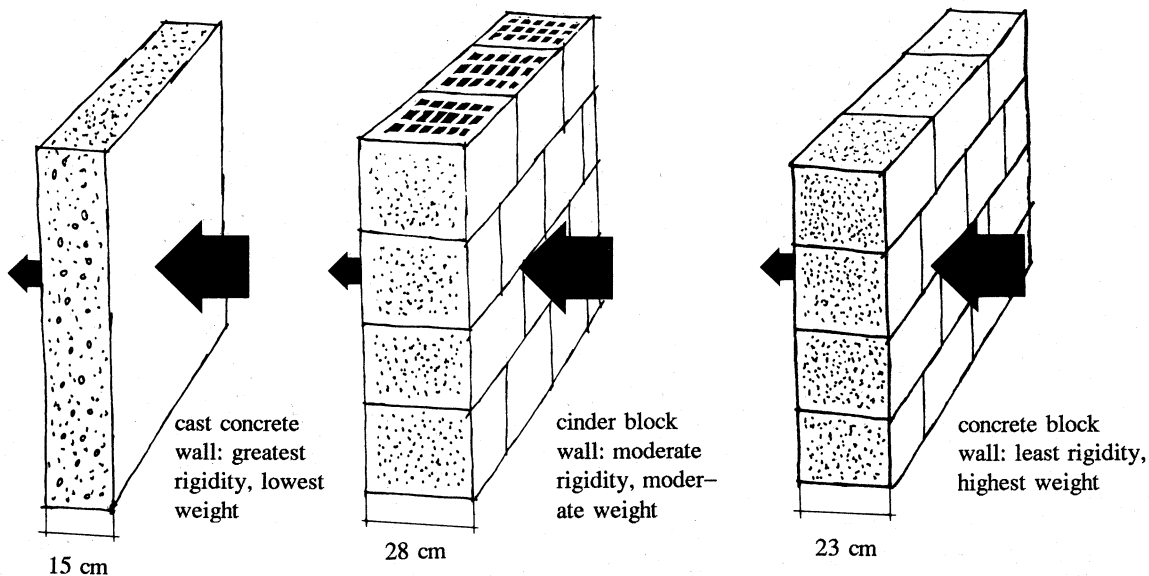


RIGIDITY AND WEIGHT ARE BOTH IMPORTANT IN THICK WALLS

In most single-layer walls, the coincidence frequency is close to 100 Hz for a thickness of about 20 cm. At higher frequencies, both increased weight and increased rigidity produce a greater TL. A cast concrete wall has greater rigidity than a concrete block wall, and therefore provides a greater TL if the two wall weights are the same.

Principle

Walls with same TL. 30 dB at low frequencies, 60 dB at high frequencies, mean TL 55 dB



Application with enclosing walls.

Example

Machines in a large open area in an industrial building create a noise hazard.

Control Measure

The area containing the machines is surrounded by a brick wall.

